

## ABSTRACT

5 A wine must pump (10) for pumping a wine product (23) such as must or pomace, has an  
intake port (14) for receiving the wine product (23), a discharge port (16) for discharging the  
wine product (23) under pressure, vacuum chamber (20), connected to the inlet port (14), for  
receiving and separating wine product (23) from air, a pressure valve (26) for allowing the wine  
product (23) to be removed from the vacuum chamber (20) and an air pump (18) for providing  
the vacuum and forced air. A thermal transfer unit (28) removes heat from air exiting the air  
10 pump (18) such that the wine product (23) is not harmed thereby. A demister (39) removes  
moisture from recycled air entering the air pump (18). Silencers (74), (76) and (86), and an air  
pump sound box (110), provide for the quiet operation of the wine must pump (10). Optionally,  
process air can be injected between the vacuum chamber (20) and the pressure valve (26) to  
prevent clogging at the bottom of the vacuum chamber (20).

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